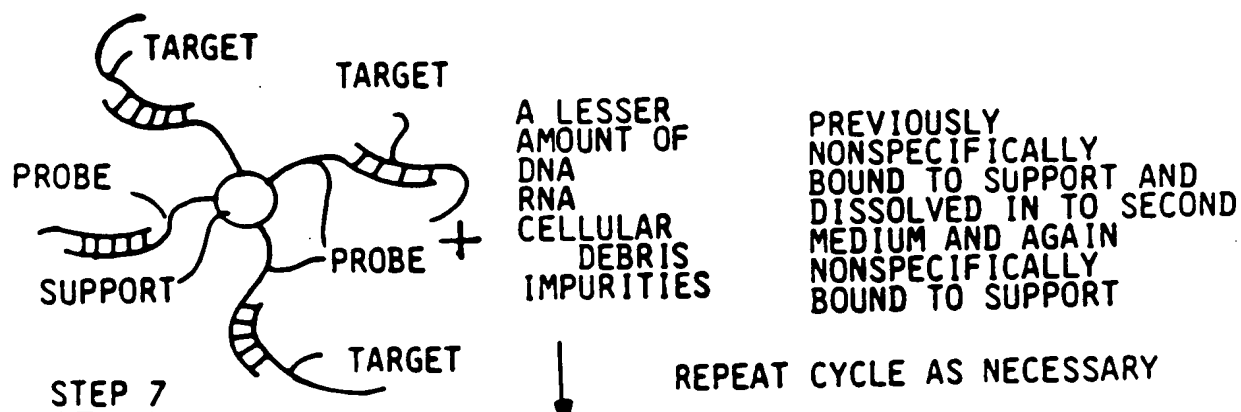
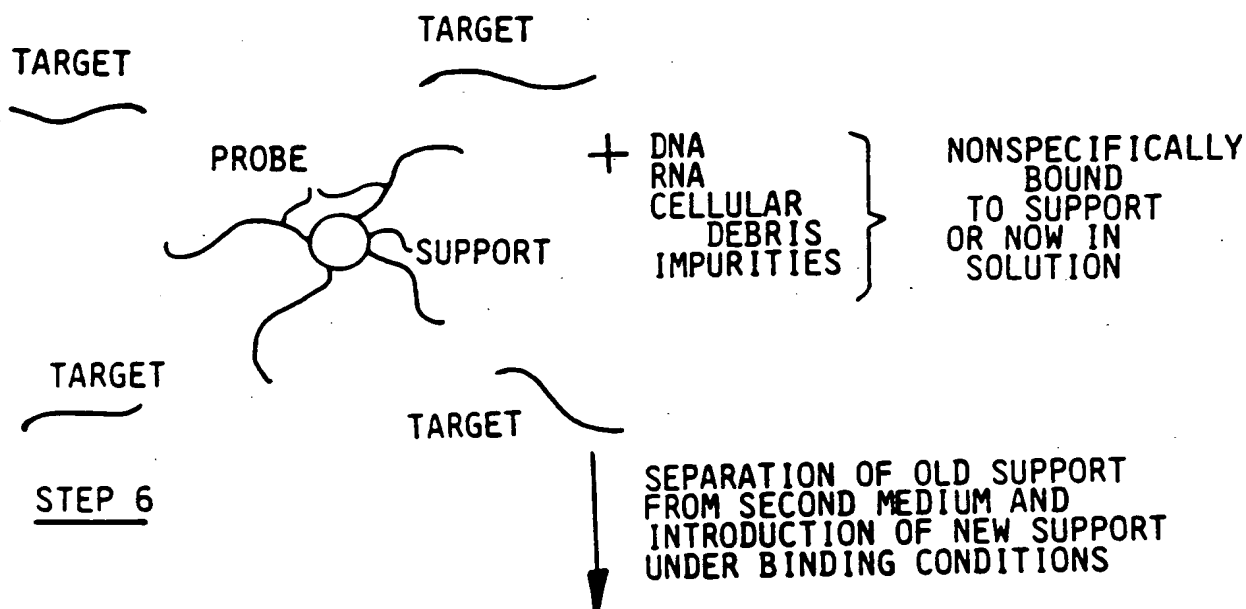
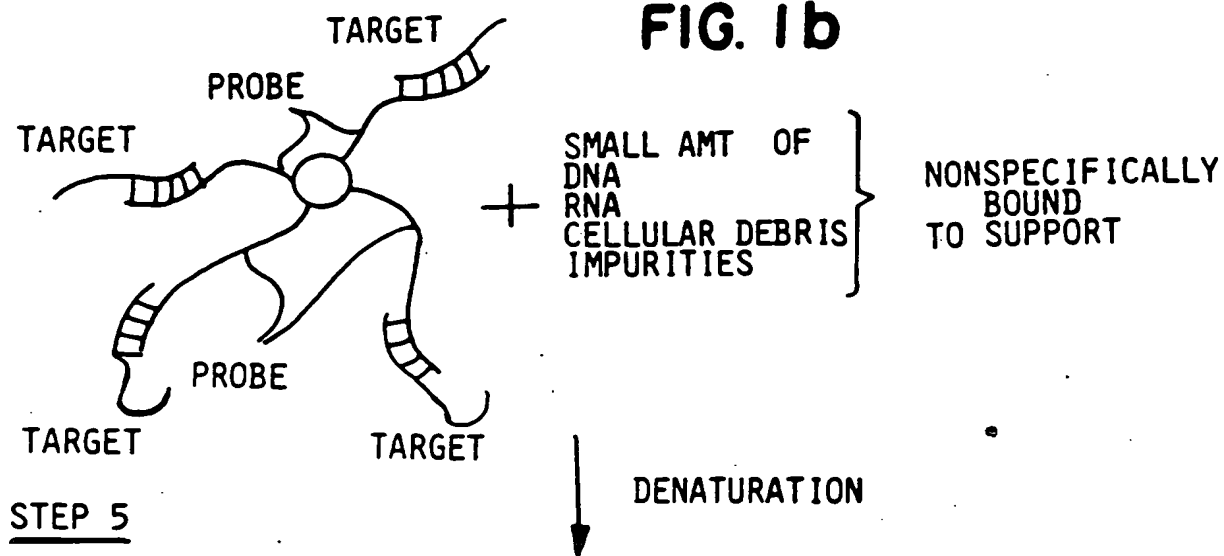


FIG. 1b



STEP 8

DETECT TARGET

FIG. 2a

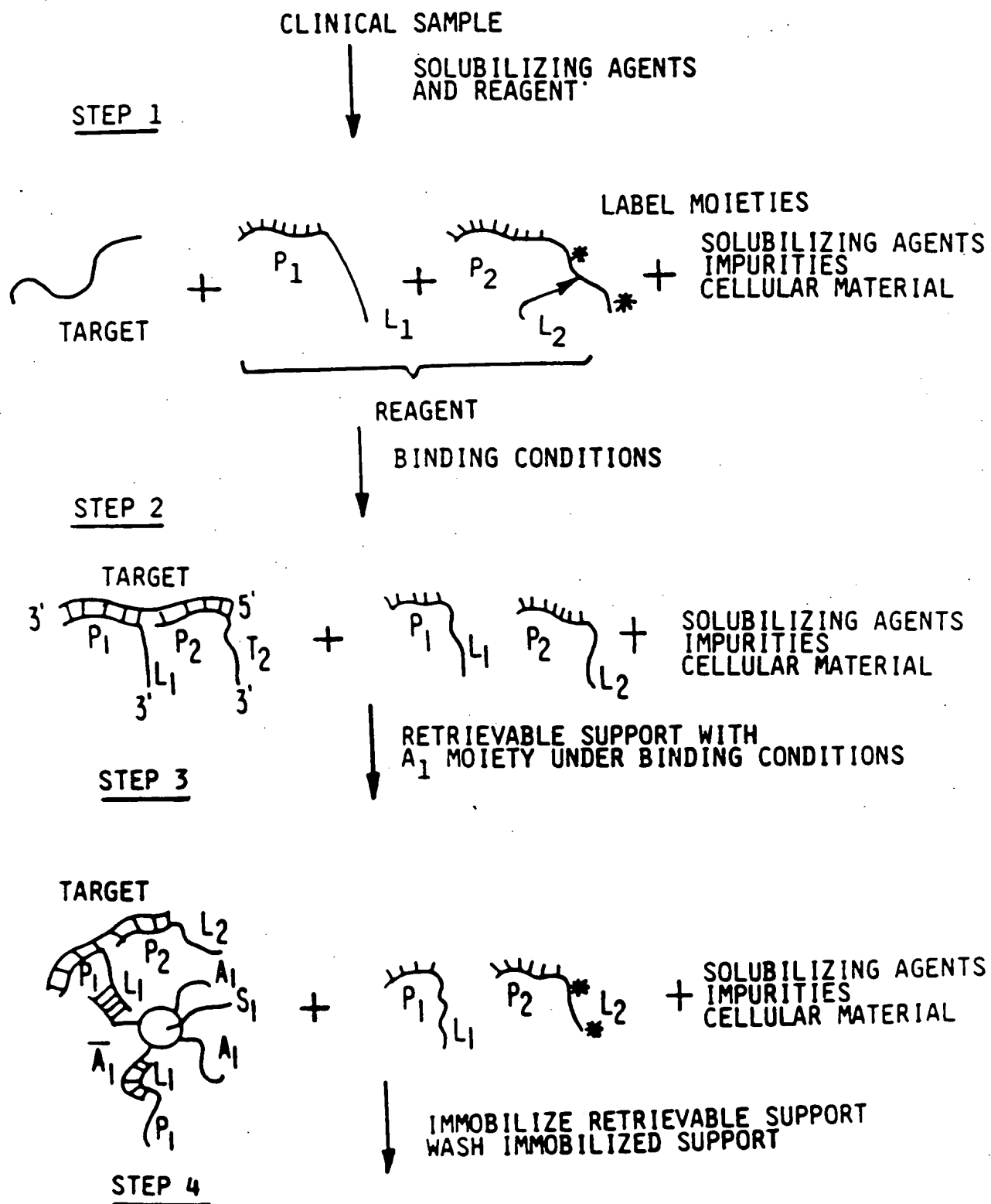


FIG. 2b

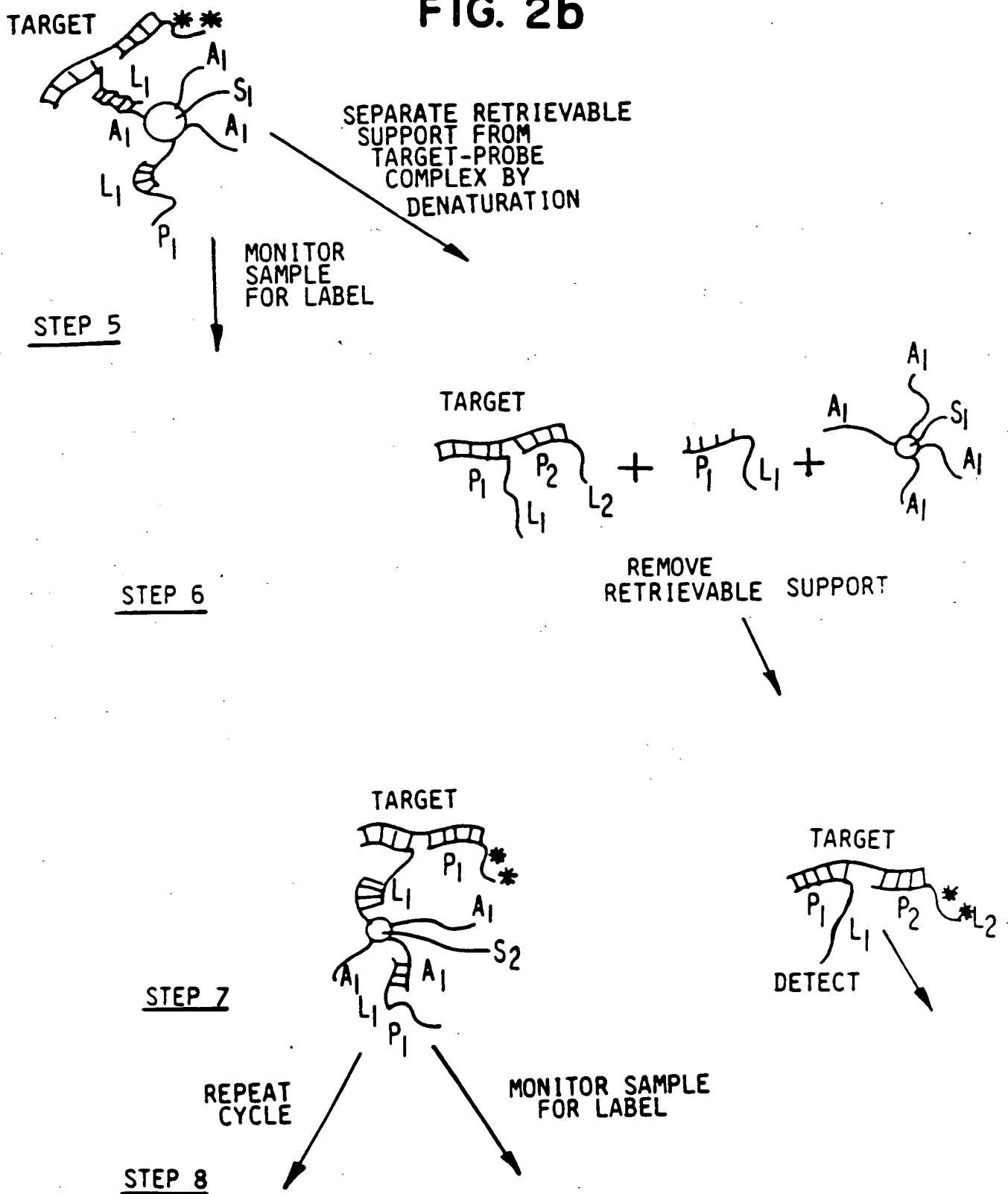
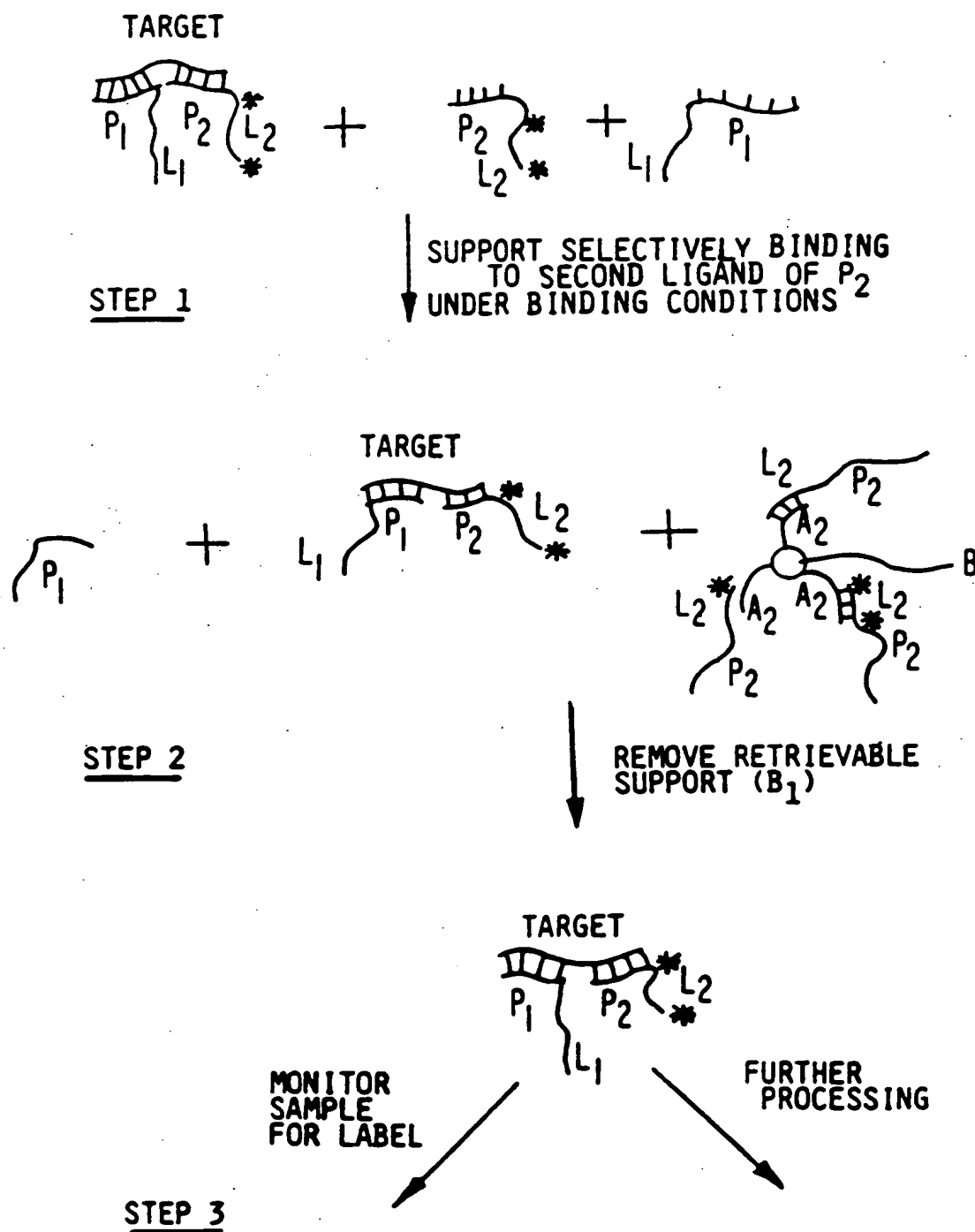


FIG. 3



Step 1

Target DNA in rough sample

capture probe (red protein) 238080
capture bond
Binding conc. ions



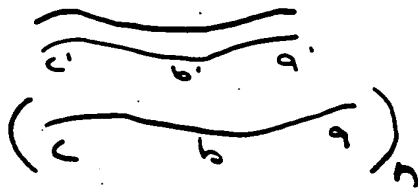
Step 2

isolate bonds

target DNA (substantially free of sample
impurities, debris, extraneous
polynucleotides)

Step 3

core RNA polymerase
Low salt buffer



target DNA

RNA complementary to target DNA

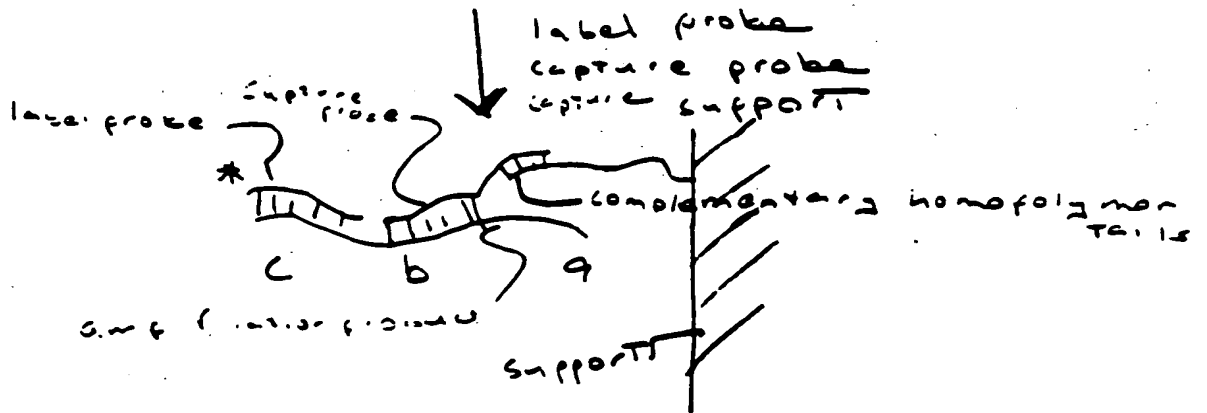


Fig 5

Target DNA in rough sample

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Step 1

capture probe
capture bead



Step 2

isolate beads

Target DNA (substantially free of sample impurities, debris, extraneous polynucleotides)

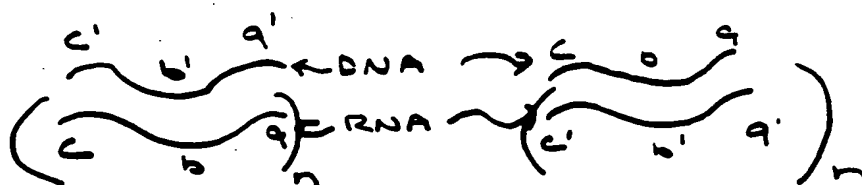
Step 3 a

DNA polymerase
hexamer primers



Step 3 b

core RNA polymerase
low salt buffer



Step 4

labelled probe
capture probe
support

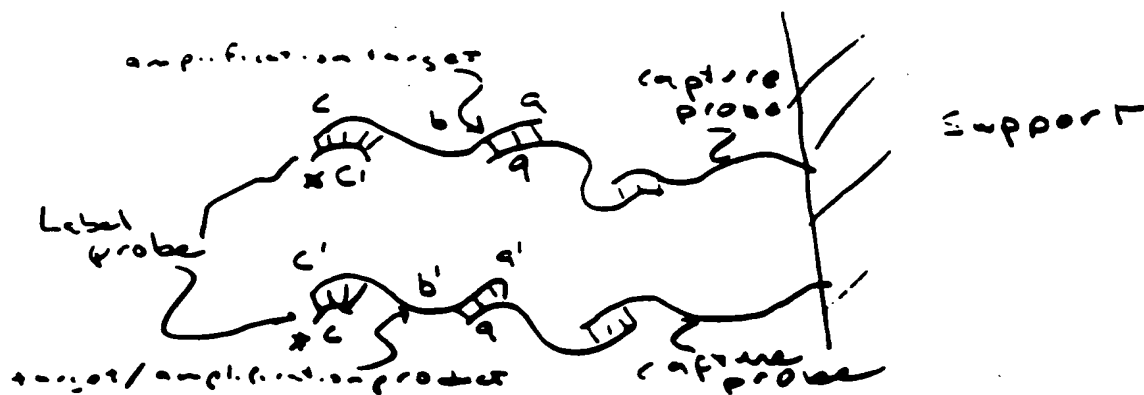
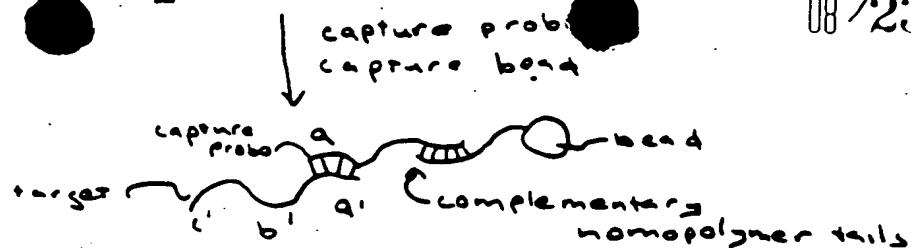


Fig 6

Target DNA in rough sample

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Step 1



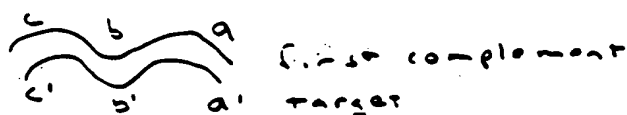
Step 2

isolate bead

Target DNA (substantially free of sample impurities, debris, and extraneous polynucleotides)

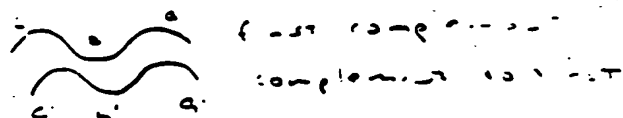
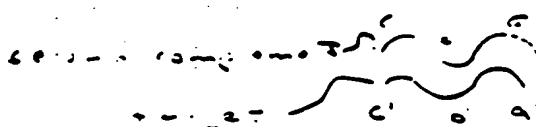
Step 3a

DNA polymerase
Hemmer primers



Step 3b

denature
DNA polymerase



denature
label probe
capture support
capture probe

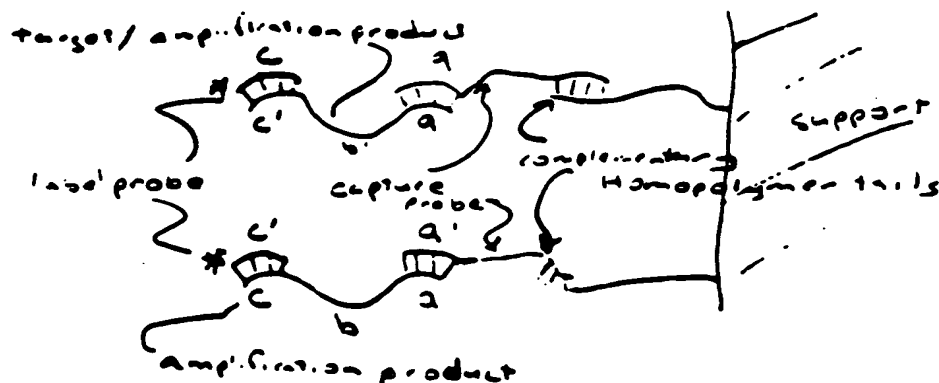
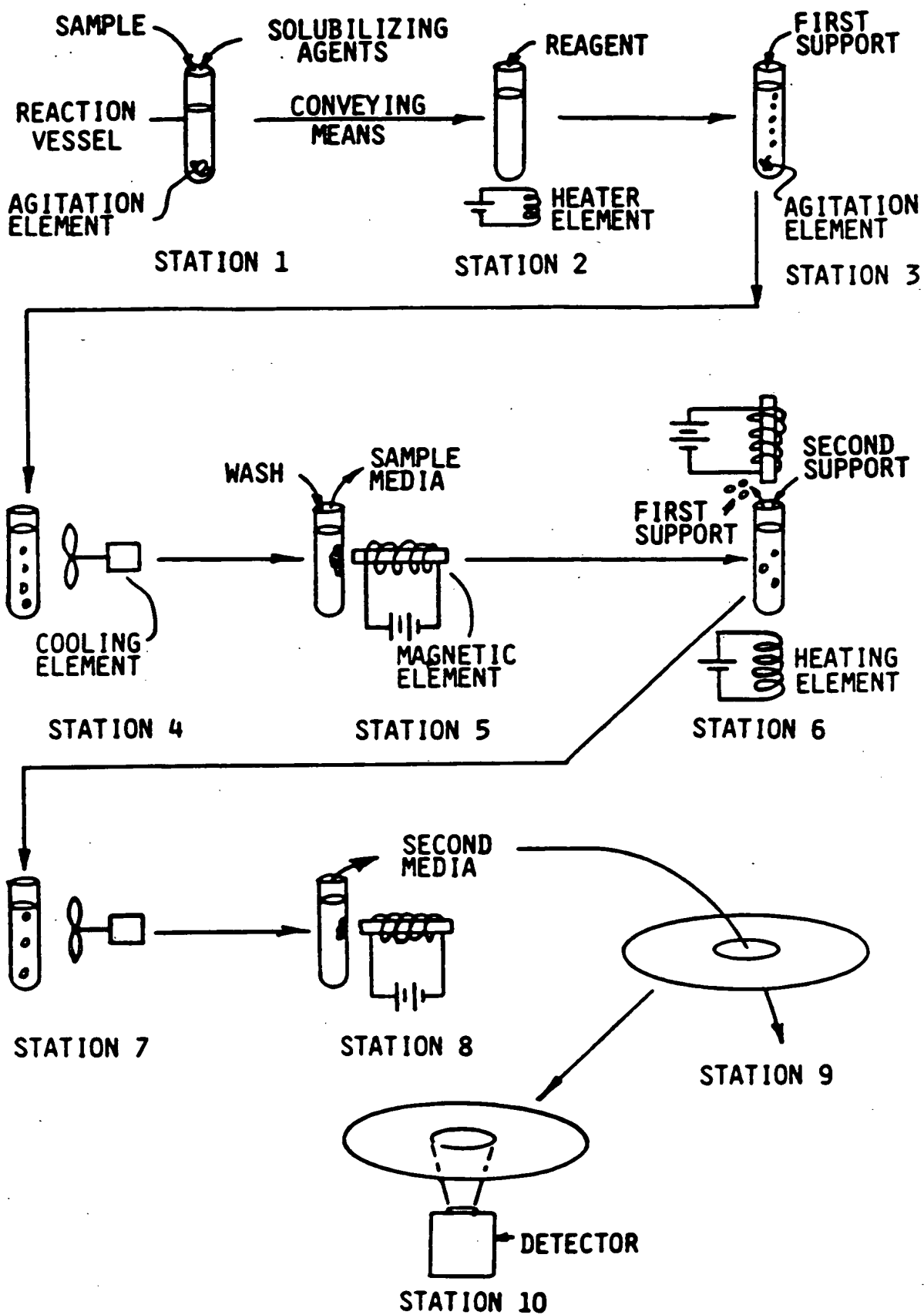


FIG. 7



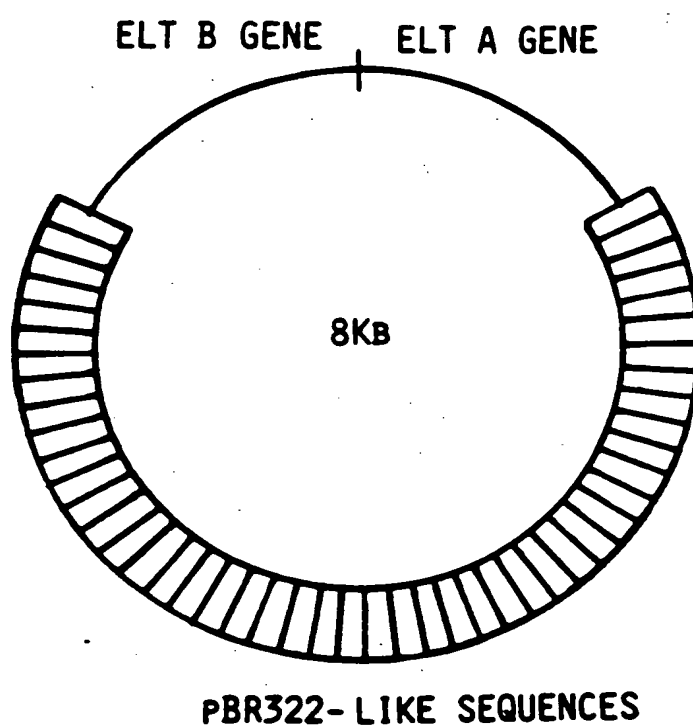


FIG. 8